ITHEA International Scientific Society

ITA 2016

XIX-th Joint International Scientific Events on Informatics
www.ithea.org

Sessions in Bulgaria
Hotel " SAINT HELENA"
in the resort "St. Constantine & St. Helena", Varna, Bulgaria
Summer Session: July 04 - July 15, 2016
Autumn Session: September 05 – September 11

Autumn Sessions in Spain and Ukraine: October - November, 2016
Winter Session - Internet Tele-Conferences: December, 2016,

Papers from ITA 2016 will be published by:

The ITHEA International Journal
"Information Theories and Applications" (IJ ITA)

The ITHEA International Journal
"Information Technologies and Knowledge" (IJ ITK)

The ITHEA International Journal
"Information Models and Analyses" (IJ IMA)

The ITHEA International Journal
"Information Content and Processing" (IJ ICP)

The ITHEA International Book Series
"Information Science and Computing" (IBS ISC)

The ITHEA International Digital Library with
Referative Scientific Index (RSI)

The ITHEA International Journals are indexed by Worldcat, ROAD Directory of Open Access scholarly Resources, Google Scholar, CiteseerX and ITHEA RSI.

ITA 2016 is organized by:

ITHEA International Scientific Society (ITHEA ISS)
Association of Developers and Users of Intelligent Systems (ADUIS)
in tight collaboration with:

- FIS Foundations of Information Science (Spain)
- Spanish Network on Biomolecular and Biocellular Computing (Spain)
- National Academy of Sciences of Ukraine
- Community of Students and Postgraduates of Cybernetics Faculty of Taras Shevchenko National University of Kyiv (Ukraine)

- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- V.M.Glushkov Institute of Cybernetics of NASU (Ukraine)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Research Institute of Applied Semiotics of Tatarstan Academy of Sciences (Russia)
- St.Petersburg Institute for Informatics and Automation of RAS (Russia)
- Instituto Aragonés de Ciencias de la Salud (Spain)
- Dorodnicyn Computing Centre of the Russian Academy of Sciences (Russia)
- Institute of Informatics Problems of the RAS (Russia)
- Institute for Informatics and Automation Problems, NAS (Armenia)
- Institute of Mathematics of SD RAN (Russia)
- Institute of Mathematical Problems and Systems of NASU (Ukraine)

- Taras Shevchenko National University of Kyiv (Ukraine)
- National Aviation University, Kyiv (Ukraine)
- Universidad Politecnica de Madrid (Spain)
- New Bulgarian University, Sofia (Bulgaria)
- Ain Shams University, Cairo (Egypt)
- Rzeszow University of Technology (Poland)
- Educational-scientific complex "Institute for applied system analysis" (Ukraine)
- Kharkiv National University of Radio Electronics (Ukraine)
- Hasselt University (Belgium)
- University of Calgary (Canada)
- Ben-Gurion University (Israel)
- Astrakhan State University (Russia)
- School of Information Technologies and Cybersecurity of V.S. Martinovsky Institute of Refrigeration Cryotechnologies and Ecoenergetics at Odessa National Academy of Food Technologies, (Ukraine).
- Taras Shevchenko National University of Luhansk (Ukraine)
- Varna Free University "Chernorizets Hrabar" (Bulgaria)

Preliminary Time Tables for ITA 2016 Plenary Sessions in Bulgaria

(Conference room of the hotel "St. Helena")
Working languages are pointed in the information for corresponded conferences (see next pages).

ITA 2016 Summer Session

		10:00–12:00	12:00–14:00	14:00–16:00	16:00–17:00	17:00–19:00
01.07.16 - 03.07.16		arrivals				
04.07.16	Monday	KDS	*Break*	KDS	*Break*	KDS
05.07.16	Tuesday	CFDM	*Break*	CFDM	*Break*	CFDM
06.07.16	Wednesday	MeL	*Break*	MeL	*Break*	MeL
07.07.16	Thursday	GIT	*Break*	GIT	*ITHEA EVENING*	
08.07.16	Friday	AIM	*Break*	AIM	*Break*	AIM
09.07.16	Saturday	TFIM	*Break*	TFIM	*Break*	TFIM
10.07.16	Sunday	ISSI	*Break*	ISSI	*Break*	ISSI
11.07.16	Monday	i.TECH	*Break*	i.TECH	*Break*	i.TECH
12.07.16	Tuesday	i.TECH	*Break*	i.TECH	*ITHEA EVENING*	
13.07.16	Wednesday	i.TECH	*Break*	i.TECH	*Break*	i.TECH
14.07.16	Thursday	ITHEA SIG	*Break*	ITHEA SIG	*Break*	ITHEA SIG
15.07.16 - 17.07.16		departures				

ITA 2016 Autumn Session

		10:00–12:00	12:00–14:00	14:00–16:00	16:00–17:00	17:00–19:00
01.09.16 - 04.09.16		arrivals				
05.09.16	Monday	KEBIDH	*Break*	KEBIDH	*Break*	KEBIDH
06.09.16	Tuesday	CSAI	*Break*	CSAI	*Break*	CSAI
07.09.16	Thursday	CSAI	*Break*	CSAI	*ITHEA EVENING*	
08.09.16	Wednesday	CSAI	*Break*	CSAI	*Break*	CSAI
09.09.16	Friday	i-i-i	*Break*	i-i-i	*Break*	i-i-i
10.09.16	Saturday	i-i-i	*Break*	i-i-i	*Break*	i-i-i
11.09.16	Sunday	i-i-i	*Break*	i-i-i	*Break*	i-i-i
12.09.16	Monday	INFOS	*Break*	INFOS	*Break*	INFOS
13.09.16	Tuesday	INFOS	*Break*	INFOS	*ITHEA EVENING*	
14.09.16	Wednesday	INFOS	*Break*	INFOS	*Break*	INFOS
15.09.16 - 16.09.16		departures				

VISAS for ITA 2016

To receive **Bulgarian visa** for ITA 2016 Summer or Autumn Session one has to have:
- Invitation letter;
- Voucher for hotel accommodation;

as well as many other documents that exist in obligatory list of Bulgarian Embassy in your country.
Voucher may be obtained from HIT-Tourism Tour Operator. Send your requests for hotel reservation to both e-mails: office@hit-tourism.com and office@ithea.org.
Invitation letter may be received from the ITHEA Institute of Information Theories and Applications. In order to obtain invitation letter, fill visa and registration forms and send them to office@ithea.org.
International passports must be **valid** at least six months after the conference time.

To receive **Schengen visa** for ITA 2016 Autumn Session in Spain one has to have:
- Invitation letter;
- Hotel reservation;

as well as many other documents that exist in obligatory list of Spain Embassy in your country.
Invitation letter may be received from the Politechnika de Madrid. Please fill visa form and send it to office@ithea.org.
Hotel reservation has to be done by Booking.com.
International passports must be **valid** at least six months after the conference time.

Accommodation for ITA 2016 Sessions in Bulgaria

HIT-Tourism Tour Operator, Varna, Bulgaria
License number: 04482
www.hit-tourism.com ;   e-mail: office@hit-tourism.com ;
+359 52 361 900;   +359 888 794 159   Skype: hit_mira

ITA 2016 SPECIAL HOTELS' PRICES (EURO)

Prices for Hotel Complex "**SAINT HELENA ******", *All inclusive*
Resort "St. Constantine & St. Helena", Varna, Bulgaria, *400m far from sea*
http://www.svetaelena.com/hotel.aspx?lang=en

Summer session:	**10.06 - 15.07.2016**	*Autumn session*:	**01.09 - 20.09.2016**
Person in a double room	EURO **30**	**Person in a double room**	EURO **30**
Single room	EURO **33**	**Single room**	EURO **33**
Booking till April 30, 2016 !		**Booking till July 31, 2016 !**	

Send your requests for booking to both e-mails:
office@hit-tourism.com and office@ithea.org.
If you not receive answer in a couple of days, please resend request!

Transfer airport - hotel *in one direction per car***:**
car (1-4 sits): EURO 24; minivan (4-7 sits): EURO 29.

Manuscripts

ITHEA rules for preparing the manuscripts are compulsory.

Responsibility for manuscripts published in ITHEA International Journals and Book Series belongs to authors. Please *get permission to reprint* any copyrighted material.

Not acceptable manuscripts will be returned to authors with recommendations. After authors' editing and refinement, if the manuscripts are reviewed positively they will be published.

Manuscripts need to be formatted in DOC or TeX formats according the sample sheets given at:
- DOC template: http://www.ithea.org/conferences/ithea_doc_template.doc
- TeX template: http://www.ithea.org/conferences/ithea_tex_template.tex

Accepted manuscripts will be published by ITHEA® as follow:

- *Regular papers or surveys in English or Russian* up to 30 pages will be published in the International Journal "Information Theories and Applications" (IJ ITA);
International Journal "Information Technologies and Knowledge" (IJ ITK);
International Journal "Information Models and Analyses" (IJ IMA);
International Journal "Information Content and Processing" (IJ ICP).
- *Books* (monographs or specialized thematically organized collections) will be published in the ITHEA International Book Series "Information Science and Computing"
(IBS ISC).

Papers and Books published by ITHEA as well as *Abstracts in English* of all works are freely available online at the ITHEA ISS International Digital Library and Indexing System:
http://idr.ithea.org .

Submission

The camera-ready copy of the manuscript should be received by the ITHEA Conference Submission System (http://ita.ithea.org) or by the ITHEA Journal Submission System (http://ij.ithea.org); e-mail for questions: office@ithea.org. *Please observe the rules and deadlines!* Submit registration cards and visa forms to e-mail: office@ithea.org .

Deadlines for ITA 2016

For KDS, CFDM, MeL, AIM, TFIM, i.TECH, and GIT:
April 30, 2016: **reservation of hotel**, submission of **registration forms** and **visa application forms** by e-mail: office@ithea.org and office@hit-tourism.com
April 30, 2016: submission of **paper** by the ITHEA ISS Submission Web System: http://ita.ithea.org
May 15, 2016: notification of the **paper acceptance** by the ITHEA ISS Submission Web System

For CSAI, i-i-i, KEBIDH, INFOS:
June 15, 2016: **reservation of hotel**, submission of **registration forms** and **visa application forms** by e-mail: office@ithea.org and office@hit-tourism.com
July 15, 2016: submission of **paper** by the ITHEA ISS Submission Web System: http://ita.ithea.org
July 31, 2016: notification of the **paper acceptance** by the ITHEA ISS Submission Web System

For NIT:
July 15, 2016: submission of **registration forms** and **visa application forms** by e-mail: office@ithea.org
July 15, 2016: submission of **abstract** by e-mail: office@ithea.org
August 26, 2016: notification of the **paper acceptance** by the ITHEA ISS Submission Web System
December 10, 2016: submission of **paper** by the ITHEA ISS Submission Web System: http://ita.ithea.org

For IT&I, TAAC, CML and CMSCE:
See websites: http://iti.fit.knu.ua/ , http://www.taac.org.ua/en/ , http://www.confcognresearch.ru

For IM and MIM:
November 30, 2016: submission of **abstract** by e-mail: office@ithea.org
December 10, 2016: notification of the **abstract acceptance** by the ITHEA ISS Submission Web System
March 31, 2017: submission of **paper** according the abstract by the ITHEA ISS Submission Web System: http://ita.ithea.org

Fees (including 20% VAT)

Registration Fee is **EURO 240** (fee 200 + VAT 40).
> Registration fee includes both *publication fee* and *participation fee* per one paper.

Publication Fee is **EURO 120** per paper (fee 100 + VAT 20).
> Publication fee includes *only one exemplar* of the issue in which the paper has been *published*.

Participation Fee is **EURO 120** per paper (fee 100 + VAT 20).
> Participation fee includes *participation* for one person and permits *presentation of one paper* without publishing and *access* to conference events including summer school and one ITHEA Evening.

Sponsorship of 50% is applicable *only for the paper* which meets *all of* following requirements:
> - authors are from *Middle Income Countries* (*http://data.worldbank.org/income-level/MIC*);
> - authors are *members of ITHEA ISS*. *Membership is free (do it via www.ithea.org);*
> - paper is *not financed by any other scientific project or other source*;
> - paper contains the *acknowledgement*:
>> *"The paper is published with partial support by the ITHEA ISS (www.ithea.org) and the ADUIS (www.aduis.com.ua)"*

Requests for sponsorship have to be sent to e-mail: *office@ithea.org*.

Accompanying Persons' Fee is **EURO 30** (fee 25 + VAT 5)
> Accompanying persons' fee covers the organizing expenses and one ITHEA Evening. It does not cover excursions and other social events.

Additional exemplars
> One additional journal number costs **EURO 12** (10 + VAT 2).
> One additional book costs **EURO 24** (20 + VAT 4).

Post expenses:
> Please, note that the *fees do not include post expenses*.
> Post expenses depend of destination but are not less than **EUR 24** (20 + VAT 4).

Contact for ITA 2016: *office@ithea.org*

HIT-Tourism Tour Operator

ITA 2016 is supported by:

Srtukto Ltd.

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KDS 2016

XXII-th International Conference

Knowledge - Dialogue - Solution

July 04 – July 15, 2016, Varna (Bulgaria)

Aims and Scope

The Conference continues the series of annual international KDS events organized by V.M. Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine and Association of Developers and Users of Intelligent Systems (ADUIS).

Topics of interest

- Applied Information Systems
- Data Mining and Knowledge Discovery
- Decision Making
- Intelligent information technology
- Interdisciplinary Scientific Research
- Logical Inference

- NL Text Processing
- Neural and Growing Networks
- Mathematical methods research of complex systems
- Modern (e-) Learning and intelligent systems
- Philosophy and Methodology of Informatics
- Problems of Computer Intellectualization

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Language

The official languages of the conference are Russian and English.

CFDM 2016

VIII-th International Conference

Classification, Forecasting, Data Mining

July 04 – July 15, 2016, Varna (Bulgaria)

Aims and Scope

The conference is devoted to the current research and applications in the fields of Classification, Clustering, Pattern Recognition, Forecasting, Features Processing, Transformations, Data Mining, and Knowledge Discovery.

Topics of interest

Pattern Recognition and Forecasting	Inductive Modeling
Machine Learning	Features Processing and Transformations
Data Mining	Applications
Classification and Clustering	Image, Speech, Document and Signal Analysis
	Knowledge-Based Decision Support Systems

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Language

The official languages of the conference are Russian and English.

MeL 2016

XI-th International Conference

Modern (e-) Learning

July 04 – July 10, 2015, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the basic directions of Modern (e-) Learning: Philosophy, Methodologies and Technologies.

Topics of interest

Philosophy and Methodology of the Modern (e-) Learning

- Accreditation and Validation of Modern (e-) Learning Materials
- Learning Communities and Virtual Spaces for Modern (e-) Learning Communities
- Copyright Regulations and Intellectual Property
- Evolution in Teacher Roles through Technology
- Experience and Problems of Implementation of Distance Learning Systems
- Informatics of the Modern Learning
- Instructional Design Theories of Modern (e-) Learning
- Institutional Issues on Technology-based Learning
- Interaction of Classical and Modern (e-) Learning
- Knowledge Market
- Modern (e-) Learning Paradigms
- Organizational Problems of Distance Learning
- Pedagogical and Organizational Frameworks of Modern (e-) Learning
- Pedagogical Approaches - Classical and Modern Didactic Principles of Modern (e-) Learning
- Policies on Technology-based Learning
- Psychological and Ergonomic Aspects of Modern (e-) Learning
- Social Aspects of Modern (e-) Learning
- Standardization of the Modern (e-) Learning Materials
- Standards and Quality Requirements for the Certification and Assessment of the Learners' Progress
- Teaching Aspects of Modern (e-) Learning

Modern e-Learning Technologies

- Information Retrieval and Visualization in e-Learning
- Multimedia Educational Systems
- Media for Learning in Multicultural Settings
- Mobile e-Learning Applications
- P2P e-Learning Applications
- Social Aspects in Collaborative e-Learning Systems
- Standardization in e-Learning Technologies (Learning Objects, Designs, Modeling Languages)
- Technology-based Blended, Distance and Open Learning
- Technology-Facilitated Learning in Complex Domains
- Technologies for advanced Teacher Training
- Technology and Human Resource Issues
- Using AI/Semantic Web Technologies for Personalized and Contextual Learning
- Web-based Educational Information Systems

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Koen Vanhoof (Belgium)
Krassimir Markov (Bulgaria)

Larissa Zaynutdinova (Rusia)
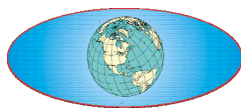Liudmila Lyadova (Russia)
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Vladimir Donchenko (Ukraine)
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Yury Valkman (Ukraine)

Language

The official languages of the conference are Russian and English.

AIM 2016

VI-th International Conference

Advances in Informational Modeling

July 07 - July 09, 2016, Varna (Bulgaria)

Aims and Scope

The conference is devoted to the advances in the fields of concepts, methods, languages and tools of Informational Modeling and Simulation and its applications. The aim of the Conference is to exchange new ideas and expertise among researches in industry, science and education.

Topics of the conference

- Concepts, Paradigms, Approaches and Modeling Languages;
- Workflow Management Systems;
- Business Process Modeling;
- Software Process Modeling;
- Application Development Methods and Best Practices in Industry, Education and Science;
- Model-Driven Project Management.

Steering Committee

Stoyan Poryazov (Bulgaria)   Krassimir Markov (Bulgaria)   Elena Chebanyuk (Ukraine)

Program Committee

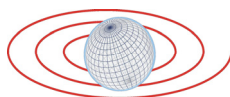|		
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	Natalia Kussul (Ukraine)	

Language

The official languages of the conference are English and Russian.

TFIM 2016

VI-th International Conference

Theoretical Foundations of Informational Modeling

July 08 – July 10, 2016, Varna (Bulgaria)

Aims and Scope

The conference objective is to present and discuss current achievement in the fields of the Theoretical Foundations of Informational Modeling.

The basic objective of the conference is the formulation and analysis of theories and paradigms for the description and solution of practical problems, based on the understanding of their underlying informational and mathematical structures.

Topics of interest

- Information Structures and Theories;
- Mathematical Structures and Theories;
- Philosophical Foundational of Informational Modeling;
- Methods and Tools for Informational Modeling;
- Domain-specific Modeling;
- Meta-models and Meta-modeling;
- Modeling Languages and Standards;
- Model-Driven Architecture;
- Model Tranformation Techniques and Languages
- Syntax and Semantics of Modeling Languages.

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Language

The official language of the conference is English and Russian.

i.TECH 2016

XIV-th International Conference

Information Technologies and Software Engineering

July 11 - July 14, 2016, Varna (Bulgaria)

The conference is supported by ITHEA Software Engineering Forum
http://idr.ithea.org/tiki-view_forum.php?forumId=1

Aims and Scope

The conference is aimed is to represent research results and development activities in fields of Information Technologies and Software Engineering.

Topics of interest

Information Technologies
- Information Systems
- Mobile and Multimedia Systems
- Distributed and Telecommunication Systems
- Cyber Security

Software Engineering
- Fundamentals of Software Engineering
  - Software Engineering Standards Discussions and Reviews
  - Theoretical Aspects of Software Engineering
  - Domain Analysis and Engineering
  - Software Modeling Standards (UML, BPMN and Others)
- Software Life Cycle Management
  - Software Development Life Cycles Processes
  - Tools, Techniques, Algorithms and Methods for Management Software Development Life Cycle
  - AGILE and Model-Driven Development (MDD) Approaches
  - Software Product Lines
- Software Applications and Development

Steering Committee

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Juan Castellanos (Spain)   Olexii Voloshyn (Ukraine)
Krassimir Markov (Bulgaria)   Vitalii Velychko (Ukraine)

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Language

The official languages of the conference are English and Russian.

GIT 2016

XIV-th International Conference

General Information Theory

July 06 – July 08, 2016, Varna (Bulgaria)

Aims and Scope

The conference objective is to present and discuss current achievement in the fields of the General Information Theory.

General Information Theory (GIT) is considered here not only as a pure theoretical discipline. While matter and energy are the foundation of material World, information is the foundation of the mental world as well as of the interactions in alive beings and within their communities. It is the leading factor in evolution and genetics. It is the basis of intellectual activity. Studying intelligence, we should take broader approach discovering the role of information, generally speaking, in life. The time has come to work out more uniform and general, deeper understanding of information processes which support the noosphere.

In this, broader sense, we should again and again turn our attention to the philosophy, interrelations between material and mental, correlate the notion of information in communication, biology, humanitarian areas and the physics of micro world.

We strongly believe that the progress in Artificial Intelligence is tightly tied with our deeper understanding of informational processes, in general. The conference is dedicated to this broad issue.

Topics of interest

Include, but are not limited to the main areas of GIT: (1) Theory of the Information, (2) Theory of the Information Subject (INFOS), and (3) Theory of the Information Interaction (INFORACTION):

Philosophy
- Philosophical background: material and mental – their coexistence and cooperation; the role of humanitarian and natural science knowledge;
- Creation of paradigms by intellectual systems;
- Information and knowledge;
- Information and life;
- Non-forceful interaction.

Cognitology, Gnoseology and Semiotics
- Theory and methodology of World cognition by intellectual systems and communities;
- Intellectual instruments of cognition: hypothesis, theories, experimental verification and falsification;
- Role of knowledge systems: knowledge, experience, beliefs, conventions, prejudices, religions, myths, formal and metaphorical reasoning; consciousness and self-consciousness;
- Semiotics of knowledge acquisition and model construction;
- Evolution and informational processes.

Modern Physics
- Physics of information processes and informational background of physics;
- What give quantum mechanics and other theories of micro world to our understanding of information exchange; principle of non locality, "spooky action at a distance".

Noosphere
- Noosphere and its informational component, simulated objects with different noosphere statuses;
- AI systems' creation within the frame of integrated interaction with environment and goal oriented activity.

Humanitarian Aspects
- Modeling Informational interaction in Nature and society: physical, social systems (psychology, egregors, sociopsychology) and beyond.

Steering Committee

Alexander Palagin (Ukraine)
Anatoly Krissilov (Ukraine)
Krassimir Markov (Bulgaria)
Mark Burgin (USA)
Pedro C. Marijuán (Spain)

Rafael Yusupov (Russia)
Vassil Sgurev (Bulgaria)
Vitaliy Lozovskiy (Ukraine)
Vitalii Velychko (Ukraine)
Yi Xin Zhong (China)

Program Committee

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Ekaterina Solovyova (Ukraine)
Gordana Dodig Crnkovic (Sweden)
Gurgen Khachatryan (Armenia)
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Tatyana Gavrilova (Russia)
Vladimir Donchenko (Ukraine)
Walter Riofrio (Peru)
Wolfgang Hofkirchner (Austria)
Yevgeniy Bodyanskiy (Ukraine)

Language

The official languages of the conference are English and Russian.

ISSI 2016

X-th International Summer School on Informatics

July 04 – July 15, 2016, Varna (Bulgaria)

Aims and Scope

The Summer School of informatics is devoted to discussion of current researches, applications and education regarding the basic directions of information technologies, and business informatics:

- **Theoretical Foundations of Informatics:** Conceptions, Modern approaches of Software Development, and Advanced Information Technologies;

- **Tools and Applications:** Tools for Information Modeling, Applied Systems for Information Service, Information Access Methods and Collaboration Tools, Information Security and Reliability, New customer engagement models enabled by Informatics Tools;

- **Informatics of/in Education (IE):** IE Conceptions, including relation to other/traditional fields of study, Computer Aided IE, Methodology of IE.

Steering Committee

Elena Chebanyuk (Ukraine)	Krassimir Markov (Bulgaria)	Luis Fernando de Mingo (Spain)
Evgeny Eremin (Russia)	Levon Aslanyan (Armenia)	Natalia Ivanova (Russia)
Juan Castellanos (Spain)	Lyudmila Kirichenko (Ukraine)	Olexii Voloshyn (Ukraine)
Koen Vanhoof (Belgium)	Lyudmila Lyadova (Russia)	Stoyan Poryazov (Bulgaria)

Language

The official languages of the Summer School are English and Russian.

Current Workshops:

Workshop on Software Engineering,

Chair: *Elena Chebanyuk, National Aviation University, Kyiv, Ukraine*

The workshop is supported by:
ITHEA Software Engineering Forum http://idr.ithea.org/tiki-view_forum.php?forumId=1

ISSI Software engineering workshop general topics
- Theoretical Aspects of Software Engineering;
- Tools, Techniques, Algorithms and Methods for Management Software Development Life Cycle;
- Software Applications and Development.

Theme of the software engineering lecture in the 2016 year:
- Markets of Mobile Applications and Engines. Benefits of Mobile Development.

Lecture summary:
- Distribution and licensing policies of mobile engines and applications.
- Tendencies of popular mobile applications.
- Main features of Unity for designing mobile applications.

The Lecture considers:
- code licensing policies;
- mechanism of earning with mobile markets;
- peculiarities of game development process;
- psychology of mobile applications user;
- rendering graphical pipeline;
- main features of Game Engine Unity 5.xx.xx (Distribution Unity packages, UI System, Cameras, Scripting and Unity Events, Collision processing and etc.)

Lecture keywords: Google market, Mobile application, Adventure, GNU General Public License, MIT/X11, Rendering pipeline, Game camera, Collisions, Events, Unity Asset, Unity Package, 3D project, Game physics, MonoBehavior, Sprite animation.

Workshop on Fractal and Multifractal Analysis

Chair: Lyudmyla Kirichenko, Kharkiv National University of Radioelectronics, Ukraine

Fractal and Multifractal Analysis workshop general topics
- basic notions and properties of self-similar and multifractal stochastic processes and time series;
- estimation methods of fractal characteristics;
and etc;

The Lecture considers the practical application of fractal analysis:
- the correction of medical diagnosis using EEG and ECG records,
- the forecasting of financial crises,
- the prevention of computer network overload
and etc;

Lecture keywords: self-similar and multifractal time series.

Workshop on Digital Business & Digital Innovation,

Chair: Natalia Ivanova, National Transport University, St. Petersburg, Russia

The business world and business environment are changing dramatically every year due to competition which became stronger and global. Using of Digital mobile devices (smartphones, tablets, and wearable devices), Internet access and cloud services, big data and information demands to transform business process and approaches in companies.

The goal of Workshop is to show of the Digital Innovation for searching and development of new business areas, enhancing the operational efficiency of business due to digital transformation and innovational technologies.

ISSI Workshop on Digital Business & Digital Innovation topics:
- The Century of Digital Services&Business and Innovation;
- Digital Transformation (transformation business processes and models);
- Digital Advertising & Marketing;
- Big Data &Data Center (technologies and trends for development);
- Digital Innovation in Business;
- Digital Innovation in Training and Education;
- Psychological issues of Digital Business;
- Information Security of Digital Business.

CSAI 2016

Cognitive Science - Approaches and Results towards Artificial Intelligence

September 05- September 11, 2016, Varna (Bulgaria)

Aims and Scope

The conference is centered on approaches and results obtained though the study of Cognition and Consciousness, their interpretation and application towards Artificial Intelligence.

Topics of interest

Researches, models in Cognitive Science as well as applications are welcomed.
The topics of interest include but are not limited to:

- Mental representations and mental operations;
- Learning and Memory;
- Perception in humans, animals, and machines (vision and machine vision, auditory perception, etc.);
- Natural language (psycholinguistics, language acquisition, conceptualization, meaning, etc.) and Natural Language Processing;
- Emotions and emotion recognition;
- Sentiment analyses;
- Cognition and Consciousness;
- Social cognition and consciousness;
- Rethinking intelligence, including artificial.

This large spectrum includes results and models in cognitive science, cognitive neuroscience, biometrics, brain imaging etc. as well as developed applications in neurocomputing, signal processing, pattern recognition, brain-computer interfaces, biometric technologies for human identification, models of society and human behavior etc.

Steering Committee

Velina Slavova, Department of Computer Science, New Bulgarian University, Sofia, Bulgaria
Krassimir Markov, Department of Informational Modeling, Institute of Mathematics and Informatics at BAS, Sofia, Bulgaria

Program Committee

Philip Andonov	Department of Computer Science, New Bulgarian University, Sofia, Bulgaria
Dimitar Atanasov	Department of Computer Science, New Bulgarian University, Sofia, Bulgaria
Jenny Benois-Pinaut	UFR Mathématiques et Informatique Université Bordeaux, France
Entcho Gerganov	Department of Cognitive Science and Psychology, New Bulgarian University, Sofia, Bulgaria
Maurice Grinberg	Department of Cognitive Science and Psychology, New Bulgarian University, Sofia, Bulgaria
Borislav L. Gueorguiev	Southeast European Center for Semiotic Studies, New Bulgarian University, Sofia, Bulgaria
Iiro P Jääskeläinen	Department of Biomedical Engineering and Computational Science, Aalto University,

	Helsinki, Finland
Fernando Luis-Ferreira	Department of Electrical Engineering, New University of Lisbon, Portugal
Christophe Paoli	Department of Computer Engineering, Galatasaray Üniversitesi and UMR CNRS 6134 (France), İstanbul, Turkey
Ekaterina Pechenkova	Research Institute of Neuropsychology of Speech and Writing, Moscow, Russia
Hichem Sahli	ETRO-Audio-Visual Signal Processing , Vrije Universiteit Brussel, Belgium
Albert Ali Salah	Department of Computer Engineering, Bogazici University, Istanbul, Turkey
Abdel-Badeeh M. Salem	Artificial Intelligence and Knowledge Engineering Research Labs, Faculty of Computer and Information sciences, Ain Shams University Abbasia, Cairo-Egypt
Hussein Samani	Institute for Cognitive Sciences Studies, Tehrān, Iran
Alona Soschen	Chief Scientist cognitive linguistics, Amerge Software Inc., Otawwa, Canada
Vassil Vassilev	School of Computing, London Metropolitan University, London, UK

Language

The official language of the conference is English.

i-i-i 2016

VII-th International Conference

Information - Interaction - Intellect

September 09 – September 15, 2016, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the intelligent systems development:

Topics of interest

- Artificial Engineering
- Decision Making
- NL Text Processing

- Intelligent Technologies in Control and Design
- Multi-agent Structures and Systems
- Neural Networks

Steering Committee

Krassimir Markov (Bulgaria)
Vitalii Velychko (Ukraine)

Alexander Palagin (Ukraine)
Olexii Voloshyn (Ukraine)

Program Committee

Alexander Eremeev (Russia)
Alexander Kleshchev (Russia)
Alexey Petrovskiy (Russia)
Anatoliy Gupal (Ukraine)
Ekaterina Solovyova (Ukraine)
Elena Chebanyuk (Ukraine)
Galina Gaivoronskaya (Ukraine)
Galina Rybina (Russia)
Genady Osipov (Russia)
Iliya Mitov (Bulgaria)

Irene Artemieva (Russia)
Iurii Kryvonos (Ukraine)
Krassimira Ivanova (Bulgaria)
Leonid Svyatogor (Ukraine)
Liudmila Cheremisinova (Belarus)
Martin Mintchev (Canada)
Natalia Bilous (Ukraine)
Natalia Kussul (Ukraine)
Olga Nevzorova (Russia)
Orly Yadid-Pecht (Israel)

Sergey Krivii (Ukraine)
Svetlana Cojocaru (Moldova)
Tatyana Gavrilova (Russia)
Tea Munjishvili (Georgia)
Valeriya Gribova (Russia)
Vassil Sgurev (Bulgaria)
Vitalii Vishnevskiy (Ukraine)
Vladimir Donchenko (Ukraine)
Yevgeniy Bodyanskiy (Ukraine)
Yury Zaychenko (Ukraine)

Language

The official languages of the conference are Russian and English.

KEBIDH 2016

III-rd International Conference

Knowledge Engineering in BioMedical Informatics and Digital Health

September 05 – September 11, 2016, Varna (Bulgaria)

Organized by:

Prof. Dr. Abdel-Badeeh M. Salem
Head of Bio-Medical Informatics & e-health Group
Artificial Intelligence & Knowledge Engineering Labs
Faculty of Computer and Information Sciences
Ain Shams University, Cairo, Egypt
Contact: absalem@cis.asu.edu.eg ; abmsalem@yahoo.com
http://www.shams.edu.eg/staff/profile.php?action=show&pid=8256

Aims and Scope

KEBIDH 2016 will bring researchers, practitioners, developers, and users to present their latest ideas and research and in all areas of neuroinformatics, bioinformatics, medical informatics, bioengineering, machine learning and artificial intelligence in all areas of digital health and life sciences.

KEBIDH 2016 will provide a forum for the exchange of ideas between knowledge engineers, biologists, physicians and computer scientists. Papers related to methodologies, techniques and applications in bioinformatics, medical informatics, telemedicine, and Health care are especially solicited.

Topics of interest

The topics of interest include, but are not limited to:
- Health Care Information Systems;
- Clinical Information Systems;
- Medical Image Processing and Techniques;
- Medical Intelligent Systems for different medical tasks;
- Medical Expert Systems;
- Applications in Medical and Health Sciences;
- Bioinformatics and Biostatistics;
- Telemedicine Software, Portals, Devices and Telehealth;
- Web-based and Remote Medicine;
- Data Mining and Knowledge Discovery in Medicine;
- Machine Learning-based Medical Systems;
- Artificial Intelligence Techniques in Health Sciences;
- Medical Databanks, Databases, and Knowledge Bases;
- Neurocomputing in Medicine;
- Ontology and Medical Information Science;
- Bioethics and Health informatics.

Steering Committee

Christina Siontorou, University of Piraeus, Greece
Florin Gorunescu, Univ. Medicine and Pharmacy of Craiova, Romania
Francesco Sicurello, University of Milan Bicocca, Italy
Halina Kwasnicka, Wroclaw University of Technology, Wroclaw, Poland
Isabelle Ellis, Department of Health and Human Services, University of Tasmania, Australia
Klaus Kayser, University of Berlin, Germany
Nataliya Pankratova, National Technical Univ. of Ukraine, Ukraine

Nikitchenko Mykola, Taras Shevchenko National Univ. of Kyiv, Ukraine
Peter Millard, Emeritus Professor of Geriatrics, St. George's University of London, UK
Roumen Kountchev, Technical University of Sofia, Bulgaria
Sarma Cakula, Vidzeme University of Applied Sciences, Valmiera, Latvia
Tatiana A. Gavrilova, Graduate School of Management, St. Petersburg State University, Russia
Urszula Markowska-Kaczmar, Wroclaw Uni. of Technology, Poland
Yukako Yagi, Harvard Medical School, Boston, MA, USA

Program Committee

Amr Badr, Faculty of Computers and Information, Cairo University, Cairo, Egypt
Andreea Ionica, University of Petrosani, Romania
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Tatjana Zrimec, Univ of Primorska, Slovenia
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Mariam Manjgaladze, Ivane Javakhishvili Tbilisi State University, Georgia
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Mohamed Roushdy, Ain Shams University, Egypt
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Nouhad Rizk, University of Houston, USA
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Smaranda Belciug, Faculty of Mathematics and Natural Sciences, University of Craiova, Romania
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Valérie Monfort, SOIE Tunis, Univ. Paris1 Panthéon Sorbonne, Tunisia
Veska Georgieva, Technical University Sofia, Faculty of Telecommunications, Bulgaria
Xiao-Zhi Gao, School of Electrical Engineering, Aalto University, Finland

Language

The official language of the conference is English.

INFOS 2016

IX-th International Conference

Intelligent Information and Engineering Systems

September 09 – September 15, 2016, Varna (Bulgaria)

Aims and Scope

The conference is devoted to the discussion of current research, development and applications of the knowledge-based intelligent information and engineering systems.

Topics of interest

Theoretical foundations:

Genetic Algorithms and Evolutionary Computing
Expert Systems, Hybrid Intelligent Systems
Fuzzy Techniques and Systems
Intelligent Agents and Multi-Agent Systems
Data Mining, Knowledge Acquisition
Knowledge Discovery, Knowledge-Based Systems
Knowledge Representation and Management
Natural Language Processing, Speech Understanding
Neural Networks, Machine Learning
Software engineering and computing techniques

Intelligent Applications:

Artificial Intelligence in Modeling and Simulation
Bioinformatics using Intelligent and Machine Learning
Business Intelligence Systems
Human-Robot interaction, Image Processing
Industrial Control and Monitoring
Intelligent Agents Applications
Intelligent Manufacturing Systems
Intelligent Natural Language Systems
Intelligent Robots
Intelligent Tutoring Systems
Intelligent Web Mining and Applications
Medical and Diagnostic Systems
Mobile Computing and Systems
Multi-Media Intelligent Information Systems

Steering Committee

Galina Setlak, Rzeszow University of Technology, (Poland)
Krassimir Markov, Institute on Information Theories and Applications, (Bulgaria)

Program Committee

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Vladimir Ryazanov (Russia)
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Xavier Blanco (Spain)
Yevgeniy Bodyanskiy (Ukraine)
Yuriy Zaichenko (Ukraine)

Language

The official language is English.

IFCM-2016

IV-th INTERNATIONAL FORUM ON COGNITIVE MODELING

September 11- September 18, 2016, Lloret de Mar, Spain

FORUM CONFERENCES:

CML-2016

XVII-th International Conference
Cognitive Modeling in Linguistics

CMSCE-2016

IV-th International Conference
**Cognitive Modeling in
Science, Culture, Education**

Forum organizers
- Kazan (Volga Region) Federal University (Russia) (www. kpfu.ru)
- Southern Federal University (Russia) (www.sfedu.ru)
- Institute of Improving Specialists' of Education Qualification (Russia) (www.roipkpro.ru)
- Institute of Linguistics, Russian Academy of Sciences (Russia) (www.iling-ran.ru)
- Moscow State Linguistic University (Russia) (www.linguanet.ru)
- New Bulgarian University (Bulgaria) (www.nbu.bg)
- National and Kapodistrian University of Athens (Greece) (http://en.uoa.gr/the-university.html)
- Sofia University St. Kliment Ohridsky (Bulgaria) (www.uni-sofia.bg)
- The University of Zadar (Croatia) (http://www.unizd.hr)
- ITHEA International Scientific Society and ITHEA Institute for Information Theories and Applications (www.ithea.org)
- Alexandru Ioan Cuza University (Romania) (www.uaic.ro/uaic/bin/view/Main/WebHome)
- Konstantin Preslavski University of Shumen (Bulgaria) (www.shu-bg.net/EN)
- National Research Technological University (MISIS) (Russia) (www.misis.ru)
- Scientific and Educational Center of Linguistics (Russia)
- Vrije Universiteit Brussel (Belgium) (www.etro.vub.ac.be)

With participation:
- Interregional Association of Cognitive Researches (www.cogsci.ru)
- Russian Association of Linguists-Cognitologists (Russia)
- Web Journal of Balkan Rusistics (Serbia) (www.russian.slavica.org/index.html)

Supported by
- International Journal "Information Theories and Applications" (IJ ITA);
- International Journal "Information Technologies and Knowledge" (IJ ITK);
- International Journal "Information Models and Analyses" (IJ IMA);
- International Journal "Information Content and Processing" (IJ ICP).
- The International Journal of Cognitive Research in Science, Engineering and Education (IJCRSEE)

Forum Organizing Committee

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Forum Program Committee

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Sineokova Tatiana, Prof., Nijnii Novgorod State Linguistic University, Russia

Solovyev Valery, Prof., Kazan Federal University, Russia

Soschen Alona, Ph.D. (MIT), Emerge Software, Canada

Vvedensky Victor, Dr., National Research Centre «Kurchatov Institute», Russia

Wichmann Soeren, Dr., Leiden University (Netherlands) & Kazan Federal University (Russia)

Important Dates

Application for participation - April 15-25, 2016
Paper submission deadline - June 15, 2016
Notification of paper acceptance - July 01, 2016
Program of the Conference – August 1-15, 2016
Conference dates   -   September 11- 18, 2016

Conference fee – rental of conference rooms and office equipment, stationery and printing costs, attributes for the conference, coffee breaks, translation during the sessions if needed, publication of the collection, delivery of the collection to the authors and publications for mandatory registry stamped ISBN.

Participants	With a report	Without a report
Standard (faculty members, researchers)	250 €	125 €
Students and post-graduate students	125 €	60 €
Distance participation	50 €	-

Language

The official languages are English and Russian.

Translation from/to if necessary is provided during the sessions.

Contacts:

Svetlana MasalÓva: +7-928-189-58-77, msi7@mail.ru - Chairman of the Organizing Committee.
Vladimir Polyakov: pvn-65@mail.ru - Chairman of the Program Committee.
Spyros Hoidas: shoidas@enl.uoa.gr - Co-chair of the Organizing Committee
Velina Slavova: vslavova@nbu.bg - Co-chair of the Program Committee

Website of the forum: www.confcognresearch.ru

CML-2016

XVII-th International Conference

Cognitive Modeling in Linguistics

September 11- September 18, 2016, Lloret de Mar, Spain

Aims and Scope

The purpose of the conference CML-2016 is to integrate the work of specialists in cognitive science, cognitive linguistics, semiotics, psycholinguistics, text and speech technologies etc.
The results of the conference CML-2016 is expected to contribute to the investigation of language seen as integrated with human cognition.
The conference program CML-2016 includes plenary sessions; sections sessions; a workshop, organized by the Institute of Psychology of Russian Academy of Science; round table discussion with current trends in cognitive science, memorable round table discussion.

Topics of interest CML– 2016

General topics
- Philosophy of language and mind
- Cognitive Models of Language Phenomena
- Formal Models in Language and Cognition
- Cognitive - Oriented Computer Applications and Linguistic Resources
- Language and emotions

These general topics can include studies and models in the following Domains
Models and Studies in
- Speech Perception and Production
- Emotions and language, emotions and computer interface
- Sentiment analyses
- Psycholinguistics and Psychosemantics
- Semiotics, Semantics and Pragmatics
- Language Processing, Memory and Thought
- Child Speech and Language Acquisition
- Translation and Cognition
- Speech Impairments
- Language Disorders
- Cognitive Aspects of Theology
- Cognitive Aspects of Information Technologies Development and Using
- Cognitive Approaches in the Development of Information Technologies

Cognitive Linguistics
- Metaphor Theory
- Mental Lexicon and Lexicon Ontology
- Naive World Image and Verbal Form
- Knowledge Conceptualization and Verbalization
- Cognitive Mechanisms for Text Processing
- Cognitive Models in Language Learning
- Species-Specificity of Human Language
- Representation of the World and Verbal Form
- Speech and Language Acquisition in childhood
- Typology of Languages, Genesis and Development

CMSCE-2016

IV-th International Conference

Cognitive Modeling in Science, Culture, Education

September 11- September 18, 2016, Lloret de Mar, Spain

Aims and Scope

The Program of the conference CMSCE-2016 includes a plenary and section sessions, Workshop on Cognitive Psychology of Education (organized by Southern Federal University); other Discussion Tables devoted to modern trends in Cognitive Science.

The aim of the conference CMSCE-2016 is to integrate the work of specialists in cognitive science, epistemology, cognitive psychology, philosophy of science, cognitive culturology, anthropology, cognitive pedagogic, learning theory, neural network theory, knowledge engineering etc.

The results of the conference CML-2016, as expected, will promote expansion of possibilities of interdisciplinary researches of cognitive Modeling of processes and technologies of receiving, transfer, processing, storage, transformation of information on the world and the person in various fields of activity of the cognizing subject.

Topics of interest CMSCE-2016

1. Methodology
    1.1. General Problems of Cognitive Science
    1.2. Schematization, Construction and Modeling
    1.3. Consciousness Modeling
    1.4. Cognition in Modeling
    1.5. Cognitive Modeling of Activity and Behavior
    1.6. Decision Making
2. Sciences about the World and the Person
    2.1. World Picture and World Image
    2.2. Cognitive Processes
    2.3. Irrational and Rational in Cognition
    2.4. Cognitive Styles and Style of Thinking
    2.5. Emotions and Knowledge
    2.6. Cognitive Psychophysiology
    2.7. Cognitive Problems of Economics and Management
3. Culture
    3.1. Culture and Cognitive Processes
    3.2. Cognitive and Cognitive-Linguistic Forms of Culture
    3.3. Cognitive Basis of Creative Activity
    3.4. Cognitive aspects of creativity (music, chess, art, etc.)
    3.5. Sports and Cognitive Modeling
4. Education
    4.1. Cognitive-Information Paradigm in Education
    4.2. Educational Technologies and Cognitive Modeling
    4.3. Cognizing Subject and Activity Subject
    4.4. Educational Environment
    4.5. Cognitive Andragogics

NIT 2016
Valencia – Spain, 18th -22th October 2016

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NIT 2016

VII-th International Conference

Natural Information Technologies

October 18 - October 22, 2016, Universidad Politécnica of Valencia (Spain)

Aims and Scope

Natural Computing can be broadly defined as the development of computer programs and computational algorithms using metaphorical inspiration from system and phenomena that occur in the natural world. Fundamentals of Natural Computing: Basic Concepts, Algorithms, and Applications present a wide-ranging survey of novel techniques and important applications of nature-based computing.

The goal of NIT International Conference is to offer a platform to critically assess present findings in the field, and to outline future developments in nature-inspired computing.

Original papers describing current research in the areas given below are invited, but other relevant areas also welcome. Papers in application areas of the same fields will also be considered.

Topics of interest

Topics of interest include, but are not limited to:

NATURAL COMPUTING

- Cellular Computing
- DNA Computing
- Evolutionary Computation
- Membrane Computing
- Molecular Computing
- Neural Computing
- Quantum Computing

APPLICATIONS OF NIT

- Bioinformatics
- Data Mining and Knowledge Discovery
- Decision Making and Decision Support Systems
- Evolvable Hardware
- Information Retrieval
- Knowledge Management
- Multi-agent Structures and Systems
- Natural Language Processing
- Robotics
- Synthetic Biology
- Web Intelligence

Steering Committee

Krassimir Markov, Institute on Information Theories and Applications, Bulgaria
Juan Castellanos, Universidad Politécnica de Madrid, Spain
Levon Aslanyan, Institute for Informatics and Automation Problems, Armenia

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Yevgeniy Bodyanskiy, Kharkiv University, Ukraine

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e-mail: nit@etsisi.upm.es

Language

The official language of the conference is English.

For contacts

- Juan Castellanos, e-mail: jcastellanos@fi.upm.es
- Krassimir Markov, e-mail: office@ithea.org

IT & I

III International Scientific Conference

Information Technologies and Interactions

November, 2016, Kyiv, Ukraine

Aims and Scope

The Conference is aimed to cover the areas of scientific research and development of the methodologies, methods, technical hardware and software tools in the field of information technology and interactions.

Topics of interest

Topics of interest include, but are not limited to:

- Mathematical foundations of information technology and interactions.
- Non-forceful interaction theory and its applications.
- Technologies of electronic education (e-Learning).
- Information technologies of Project Management.
- Technologies of Artificial Intelligence.
- Information technologies of E-Commerce and E-Government.
- Information technology intelligence and influence.
- Information technologies of Cyberspace security.
- Information technologies in design and management.

Steering Committee

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Voloshyn O. F. (Taras Shevchenko NationalUniversity of Kyiv, Ukraine),

Language

The official languages of the conference are Ukrainian, Russian, English.

For contacts

Web: http://iti.fit.univ.kiev.ua/

E-mail: fit_conferencii@ukr.net

Phone: + 38 (044) 521-32-77

TAAC 2016

VI-th International Scientific Conference of Students and Young Scientists

Theoretical and Applied Aspects of Cybernetics

November, 2016, Kyiv (Ukraine)

Ideology

Nowadays swift development of programming and wide applications of mathematics and information technologies in different areas of human activities is being noticed.

There are lot of projects in the history of mathematics, computer engineering and cybernetics, which were born at universities (for example, first versions of FreeBSD were created by a postgraduate student of Berkley University in 1978, famous free video editor Virtual Dub began its life at university, Google was created as a study project by two students of Stanford University, well-known programming language php would not be itself without two Israeli students Endi Gutsman and Zeev Suraski, which rewrote its interpreter from scratch etc.).

But such ideas implementation requires special environment, which will motivate creative processes. Institutions of higher education and research institutions develop and improve this environment. But scientific evolution is almost impossible without young generation initiative.

That's why the idea of this conference was born, which aims to create an environment for:

- scientific research experience exchange;
- joining efforts for solving urgent problems of contemporary cybernetics;
- development and popularization of scientific activities among students;
- searching for colleagues, supporters and just making new friends.

It is an opportunity for enterprising students and young scientists to demonstrate their academic achievements, to hear the criticism of the large audience, expand scientific horizons, attend academic lectures of professors from Ukraine and from abroad, to learn the latest developments in the IT-industry, visiting lectures of specialists from leading IT companies in Ukraine and worldwide, as well to visit theme parties, Kyiv tours, find new friends and like-minded people, have positive emotions and good time.

This conference is dedicated to the memory of the founder of Cybernetics Institute of NASU, founder of Cybernetics faculty of Taras Shevchenko National University of Kyiv, academic of NAS USSR, NASU Victor Glushkov and it's held annually from 2011.

Organizers of the conference

Scientific community of students and postgraduates of Cybernetics faculty of Taras Shevchenko National University of Kyiv

Cybernetics Faculty of Taras Shevchenko National University of Kyiv

ITHEA International Scientific Society

V.M. Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine

Institute of Software Systems of National Academy of Sciences of Ukraine

For more information:

http://www.taac.org.ua/en/

IM 2016

VI-th International (Tele-) Conference

Informational Modeling

December 12 - 15, 2016, Internet

The conference is supported by ITHEA Software Engineering Forum
http://idr.ithea.org/tiki-view_forum.php?forumId

Aims and Scope

The conference is devoted to the representing of current research in the fields of concepts, methods, languages and tools of Informational Modeling and Simulation and their applications.
The aim of the Conference is exchange the ideas and expertise among researches in industry, science and education and not formal coordination of their efforts.

Topics of the conference

1. AGILE and Model-Driven Development
   – Processing and Analysis of Software Models;
   – Modeling Languages and Tools;
   – Software Model Checking and Verification;
   – Model-Drivem Engineering;
   – Model Execution and Simulation;
   – Metamodels and Metamodeling.
2. Informational Modeling (IM) and Simulation (IM&S) - Concepts, Paradigms, Approaches and Languages
   – Modeling and Simulation (M&S) Body of Knowledge;
   – Knowledge Based IM&S. IM&S languages;
   – IM&S Heterogeneous Structures and Scalability. High Level Architecture (HLA), Agent Base IM&S.
3. IM&S Efficiency Enhancements
   – Methods for Efficiency Estimation, Comparison and Enhancement, Cooperative, Parallel and Distributed IM&S Efficiency;
   – Accuracy enhancement and simulation speeding; Simulation Experiments Design;
   – Real and IM&S Information Storage and Transmission Formats; Data Analysis and Comparison Methods;
   – Data Mining;
   – Dynamic Adaptation and Personalization of the Human–Computer–Model Interaction.
4. IM&S Efficacy Estimation and Life Cycle Management
   – Meta-modeling. Econometrical Meta-Models; M&S Efficacy Indicators;
   – M&S Detailness and Life Cycle Optimization in respect of Designed Product Life Cycle
   – Management, Emergency Cases;
   – Methods for Verification and Validation in IM&S Life Cycle.
5. IM&S Application Development Methods and Best Practices in Industry, Education and Science.
   – IM&S Impact in Industry;
   – IM&S in Science and Technology (S&T), Specifics in Information and Communication S&T;
   – IM&S in and for Education;
   – IM&S in Knowledge Market & Business Informatics.

Steering Committee

    Stoyan Poryazov (Bulgaria)   Krassimir Markov (Bulgaria)   Elena Chebanyuk (Ukraine)

Program Committee

Alexander Palagin (Ukraine)	Ivan Ganchev (Ireland)	Olexii Voloshyn (Ukraine)
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	Natalia Pankratova (Ukraine)	

Language

    The official languages of the conference are English and Russian.

MIM 2016

VI-th International (Tele-) Conference

Mathematics of Informational Modeling

December 12 - 15, 2016, Internet

Aims and Scope

The basic objective of the conference is the formulation and analysis of adequate mathematical models for the description and solution of practical engineering and related problems based on the understanding of their underlying informational structures, i.e. the mathematical foundation of information science (informatics). It includes Mathematical Logic (for Computer Science), Empirical Engineering, Theory on Algorithms, Information Theory, Coding Theory, Cryptology, Mathematical foundation of network processes and so on.

Topics of interest

- Automata theory and models;
- Chaos and self-organization models;
- Complex systems modeling and complexity of algorithms;
- Intuitionist logic and Substructural logic;
- Learning and Intelligence algorithms;
- Modeling, Simulation, and Emulation: Mathematical theory, Formal verification;
- Multisets theory and its applications;
- Parallel algorithms, scientific computation and clouds;
- Theory of named sets and its applications;
- Uncertainty, Intuitionist Fuzzy Sets: Theory and Applications;
- Cryptographic methods and protocols, Reliable and Secure Telecommunications;
- Discrete geometry, Distances and Similarities, Tomography;
- Financial mathematics, serious games;
- Generalized nets and models;
- Connectionism and Neural nets, Wavelet-neurons, and Emerging modeling objects.

Steering Committee

Levon Aslanyan (Armenia)   Krassimir Atanasov (Bulgaria)   Stoyan Poryazov (Bulgaria)
Krassimir Markov (Bulgaria)   Elena Chebanyuk (Ukraine)   Liudmila Lyadova (Russia)

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Ivan Tsitovich (Russia)   Natalia Pankratova (Ukraine)

Language

The official languages of the conference are English and Russian.

Applications under Android operating system for Tablet PCs and Smart phones about Varna

Application feature	Detailed information
Icon	
Direct Link	http://www.1mobile.com.ru/varna-map-offline-1741120.html
Purpose	***offline and online map of Varna***
Application description	Application allows observing Varna map both in online and offline modes. Using online map one can do the next: 1. Add chosen objects into favorites 2. Add your key points to Varna map 3. Searching of objects 4. Routing defining

Icon	
Direct Link	https://play.google.com/store/apps/details?id=com.gpsmycity.android.u161&hl=uk
Purpose	***Varna city guide following your interests***
Application description	This handy application presents you several self-guided walking tours to see the best of the Varna, Bulgaria, and it comes with detailed tour route maps and powerful navigation features to guide you from one sight to the next. No need to hop on a tour bus or join a tour group; now you can explore all of the best attractions on your own, at your own pace, and at a cost that is only a fraction of what you would normally pay for a guided tour. Walking tours included in this application are: * Varna Orientation Tour (8 sights)* Museums in Varna (7 sights) * Religious Sights (7 sights) * Shopping Tour (8 sights) * Sea Garden Tour (8 sights) * Varna Nightlife (8 sights) * Daily Life in Varna (7 sights)

Icon	
Direct Link	https://play.google.com/store/apps/details?id=com.travel.bulgaria.ru
Purpose	***Good Bulgarian phrase-book***
Application description	Bulgarian phrasebook will help tourists in any situation. The program will be useful for beginners (Bulgarian learners).

Icon	
Direct Link	https://play.google.com/store/apps/details?id=com.tectrice.thebestofbulgaria
Purpose	***Application opening Bulgaria with the heart***
Application description	Bulgarian nature sights and a lot of interesting and useful facts

Important information for participants in ITA 2016, Varna, Bulgaria

Please read carefully!

1. Contacts

Mobile numbers of the Organizing committee to be used during conference time:
+359 878 89 07 07, +359 878 89 07 25

2. Travel to the conference

2.1. From Varna

The Hotel "Saint Helena" of the "St. Constantine and St. Helena" resort is located less than 7 km by the way from Varna to the "Golden Sands" resort.
From Varna Airport: bus No.: 409 (to bus stop "Botanical Garden" (Botanicheska gradina) in front the hotel).
From Varna the busses are: No.: 9 (to bus stop "Botanical Garden" (Botanicheska gradina) in front the hotel) and No.: 8 to the Center of "St. Constantine and St. Helena" resort.
Please, see the map below.

2.2. From Sofia

Besides the direct flight to Varna and/or the transfer flight from Sofia, there are two possible variants to get from Sofia to Varna:
- by train from the Central Railway Station: www.bdz.bg
- by bus from the Central Bus Station (right beside the Central Railway Station: www.centralnaavtogara.bg)

2.3. In Sofia

The metropolitan line from the Sofia Airport to the Central Railway Station and the Central Bus Station is still under construction, so the transportation to these stations may be:
- By bus – 84 or 284 from the Airport to "Hotel Pliska" stop, and then 213 or 214 to the Central Station; Note: Luggage bigger than the average will require an extra ticket as well.
- Shuttle-bus: from the airport to the station. The price is 1.50 BGN (possible additional taxes for the luggage).
- Taxicab: **we do not recommend** using this transport, or in case you do always check the prices on the stickers on the windows, because the foreigners especially are often offered incredibly high prices.

3. Medicines

We want to remind if you use some special medicines not to forget them.

4. Currency

The fixed official exchange rate: 1 EUR = 1.95583 BGN (leva).
In the change offices the exchange rate may vary from 1.9 to 1.95.
When you change money, please be careful when choosing the change office. At the airport usually the rates are not preferable.
Some change offices use on their front tables fixings which aren't used for the standard procedures – it might be for write the fixing on the front table, which is not the real rate for usual exchange (it may be the rate for checks or for exchanged amount more than 10,000 lv.). Please, always read the all the notices (usually written with smaller letters) and ask the clerk for the exact total you'll receive from the exchange.
We recommend exchanging not more than 50 EUR or USD at a time.

Caution!

Be careful with your money, documents and other important personal belongings.
Make sure you keep them safe with yourself, not putting them in your luggage, as you can easily become a victim of pickpockets or thieves otherwise.
Please be alert in the city public transport as well as in the bus/train when approached by strangers and never leave your baggage unattended.

Bulgaria

Varna

Resort
"St. Constantine & St. Helena"

Bus No. 409 from airport
bus stop "Botanical Garden"
(botanicheska gradina)

Hotel St. Helena

ITA 2016, Bulgaria

Varna

Bus No. 8 from Varna
last stop